

To: McCoy, Erin[McCoy.Erin@epa.gov]
From: Jackson, Hylton [DNR]
Sent: Wed 11/2/2016 6:13:20 PM
Subject: FW: DICO Site
[removed.txt](#)
[Fifth Five Year Review Report.pdf](#)
[Plumes from Fifth Five Year Review Report.pdf](#)

Erin ,

Received this email after I spoke to Ms Kinsey on the phone yesterday afternoon. Judging by the alignment of the proposed sewer line (on the LAST page of the second attachment) the pipe comes fairly close to the elevated cis-1,2-DCE concentrations associated with the North Plume – OU-3. I ran a concentration of 500 ug/L cis-1,2-DCE through the Johnson-Ettinger intermediate page (https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/JnE_lite_forward.html) to get an approximation of what a VI number could be and then ran that value through Iowa DNR's Cumulative Risk Calculator. The risk to Site Resident seems to comfortably screen out. The project would have other state regulations to comply with. If contaminated soil is excavated during the project it would have to be treated as solid/hazardous waste, depending on contaminant and concentration, and properly managed. I am going to wait for EPA's take on this.

HYLTON JACKSON Environmental Specialist



Iowa Department of Natural Resources

515-725-8338 | Hylton.Jackson@dnr.iowa.gov

502 East 9th Street, Des Moines, IA 50319

WWW.IOWADNR.GOV

Leading Iowans in Caring for Our Natural Resources.



From: Kinsey, Katie [<mailto:kinsey@dmww.com>]
Sent: Tuesday, November 01, 2016 3:31 PM
To: Jackson, Hylton [DNR]
Subject: DICO Site

Hylton,

DMWW has some nitrate waste that needs to travel from the Fleur Drive Water Treatment Plant north and east across the Raccoon River to a sanitary sewer that will eventually get to the WRA. A proposed alignment for this waste line goes through the DCE plume for the DICO site located just east of the Fleur Drive Water Treatment Plant. I am curious what restrictions DMWW has when designing or installing this line. I have attached the Fifth Five Year Review Report to this email. I have extracted plume maps from this report as the second attachment. On the first page of the second attachment, I have roughly drawn in the proposed alignment of this waste line in blue.

This waste line will be 12" in diameter and will be constructed using open cut methods, except when it will be installed under the Raccoon River. I am proposing to directionally drill the waste line under the River. Through the plume, I anticipate the waste line will be approximately 5 to 10 feet deep. It may be deeper under the banks of the River. Can you please help me learn what restrictions DMWW has for this line? I am curious about what materials I can use and also, what are we required to do with the soils that are disturbed because of the open cut methods.

Thank you,

KATIE KINSEY, P.E. | Professional Engineer

Des Moines Water Works | **WATER YOU CAN TRUST FOR LIFE**

2201 George Flagg Parkway | Des Moines, Iowa 50321 | www.dmww.com

phone: (515) 283-8796 | fax: (515) 283-2610 | e-mail: kinsey@dmww.com



Please consider the environment before printing this e-mail.